

## 19. Почему "разрушители мифов" пошли на фальсификацию?

10-12 minutes

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How can you prove that the Americans were on the moon, if in fact the Apollo mission was just a fake flight? It is possible to "prove" only by another falsification! If you watch the program "Mythbusters", dedicated to the landing on the moon, you will find that the presenters are doing just that - in key moments they deceive the viewer.

- **Was the landing of astronauts on the moon a hoax?** - this question begins the 104th series of "Mythbusters" ("Mythbusters"), dedicated to the lunar epic. - Is the **team going to check if NASA fabricated the Apollo landing on the moon?**

- **Some people argue that the photographs are clear evidence that this happened in the studio, and not on the moon.** “ And after that question, the regular hosts, Adam and Jamie, begin to“ check ”the controversial“ moon ”photographs and videos.

The program consists of several plots. The story we will be discussing is called "An Astronaut in the Shadow of the Lunar Module." It lasts 4 minutes. Quotes from the Russian translation of the program are highlighted in bold.

- **You can see the astronaut perfectly, although he is in the shadow of the lunar module. There is only one source of light on the moon - the sun. Theorists say that there is probably a second light source, which makes the astronaut well visible.**

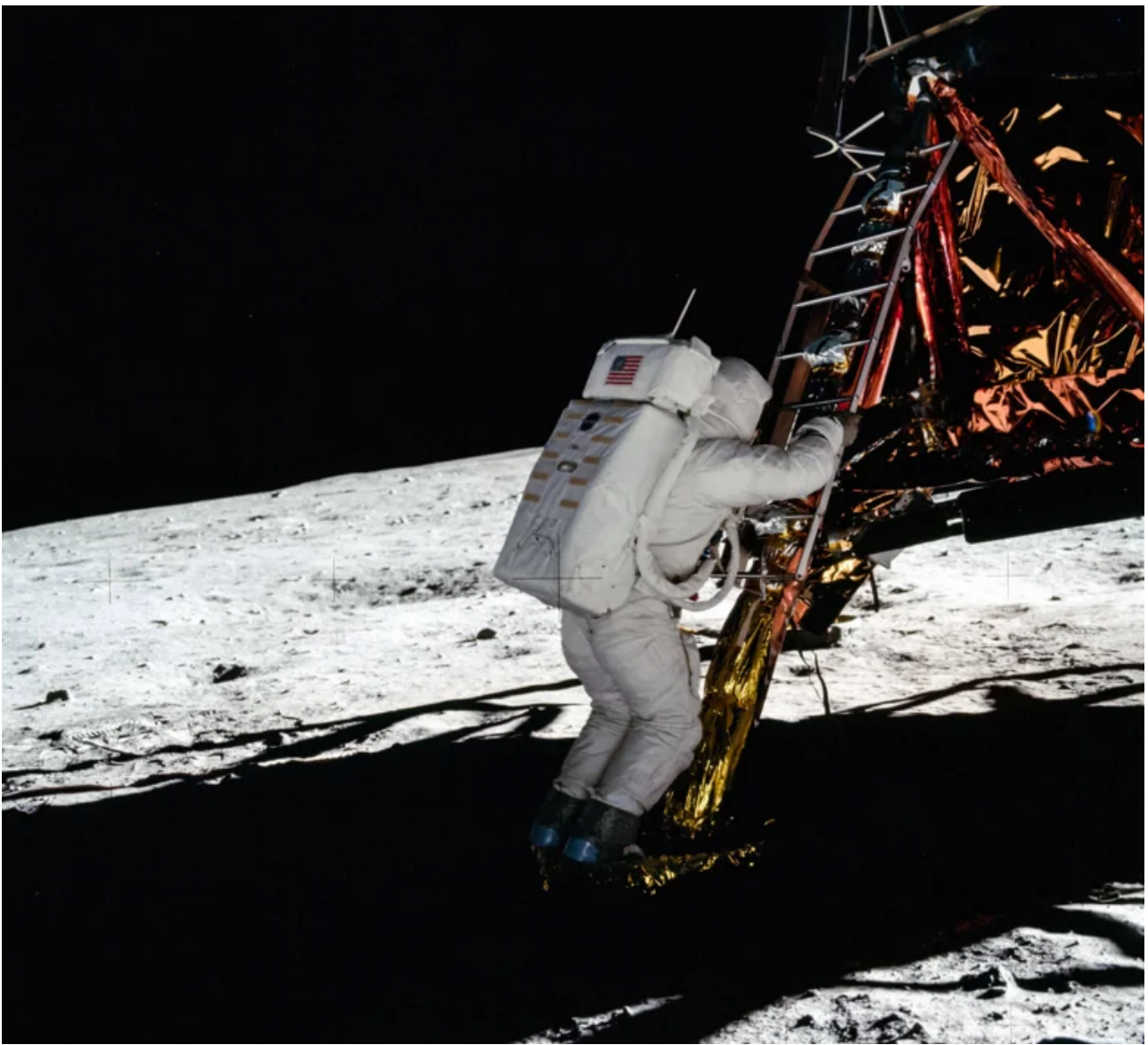


Photo from the Apollo 11 mission, which is causing controversy on the forums.

**- Active supporters of this version say that if he stood in the shadow of the lunar module, it would not be possible to see it so clearly.**



This, according to skeptics, should look like an astronaut in the shadows.

To test if an astronaut in the shadow of the lunar module can be so brightly lit, Adam and Jamie are experimenting with a mock lunar module and an astronaut doll, trying to recreate "sunlight on the moon" in the pavilion.

**“ This is my model of astronaut Neil Armstrong. - Adam declares and then deceives the viewer: - I can tell you for sure that it is him, because he has these three red stripes of the commander on his suit.**



Adam points to the red stripes on the helmet and sleeve.

In fact, none of the Apollo 11 crew, not even the commander, Neil Armstrong, had those red stripes on their helmet, sleeve, or knee.





The Apollo 11 crew goes to the rocket.

The experiment begins - a searchlight is turned on in the pavilion, simulating the light of the sun.



Searchlight depicting the "sun".

Then a platform is brought into the workshop, covered with a dark material, the reflection coefficient of which repeats the brightness of the lunar soil.





A platform with an imitation of lunar soil.

A mock-up of the lunar module is placed on the platform.



The model of the lunar module is introduced.

It can be seen that the side panel of the lunar module (point 1) differs little in brightness from the lunar soil (point 2). Let's also pay attention to the red staircase near the wall. We will need this ladder later for our conversation.

The walls of the room are covered with black paper to a level higher than human height, as if imitating the "blackness" of space in the background. The red staircase is well lit and therefore visible.



The perimeter walls are covered with black paper.

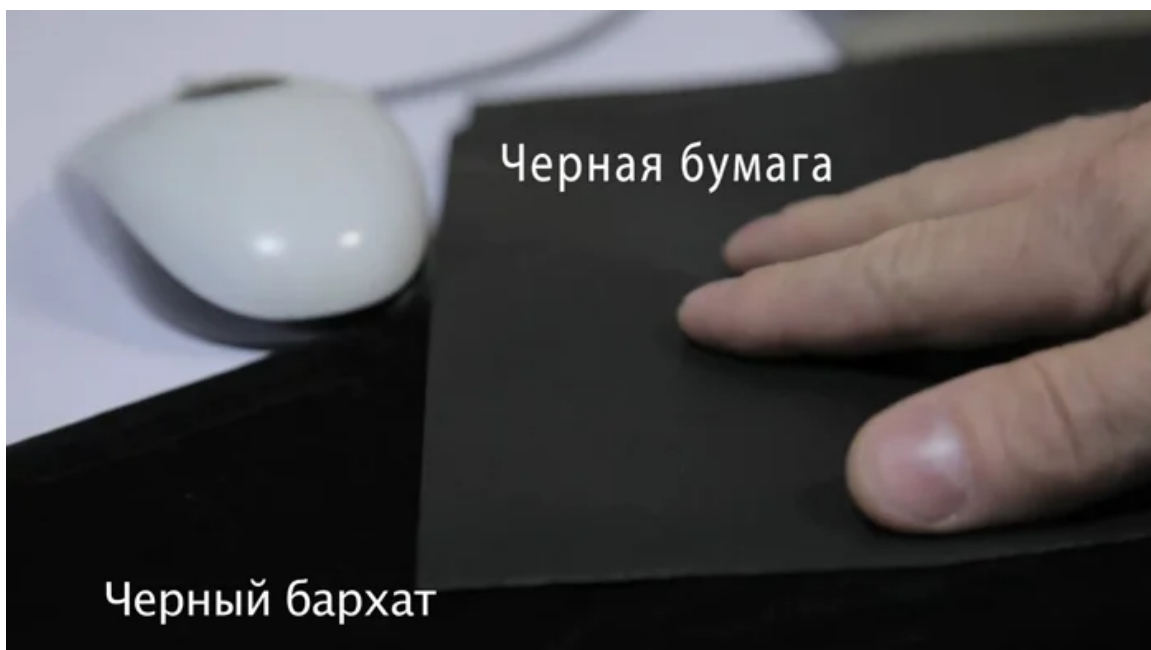
From the point of view of the correctness of the conduct, the experiment does not stand up to criticism. Black paper cannot represent the "vacuum" of space in any way, because it is not completely black, reflects 4% of the light. For comparison, the lunar soil in the lunar "seas" (these are dark places on the Moon) reflects about 8% of the light. Black paper is only 2 times darker than lunar soil.





Lunar "seas" - plains, look dark.

In addition, black paper reflects. In the production of space-themed films, black paper is never used. Black velvet is hung out as outer space (black backdrop), it reflects 0.8% of the light.



Black velvet is much darker than black paper.

The fact that black paper reflects light well can be seen in the same transmission when an actor in a black T-shirt appears next to the background. At the same time, it can be seen that compared to a T-shirt, black paper is perceived not as black, but as dark gray.



The black paper on the background (in the right corner) looks lighter than the black T-shirt.

The entire series about the Moon is built on deceptions, minor manipulations and major falsifications. You will see it for yourself now.

**- Look at our lunar surface!** - Adam exclaims, throwing open his arms. **- We covered the entire workshop in black to exclude any scattering and reflection of light that does not come from our lunar surface.**

Well, we took a look. And they saw that even under such conditions, the astronaut was completely drowned in the shadows. If you can notice, then he is at the left support of the lunar module.





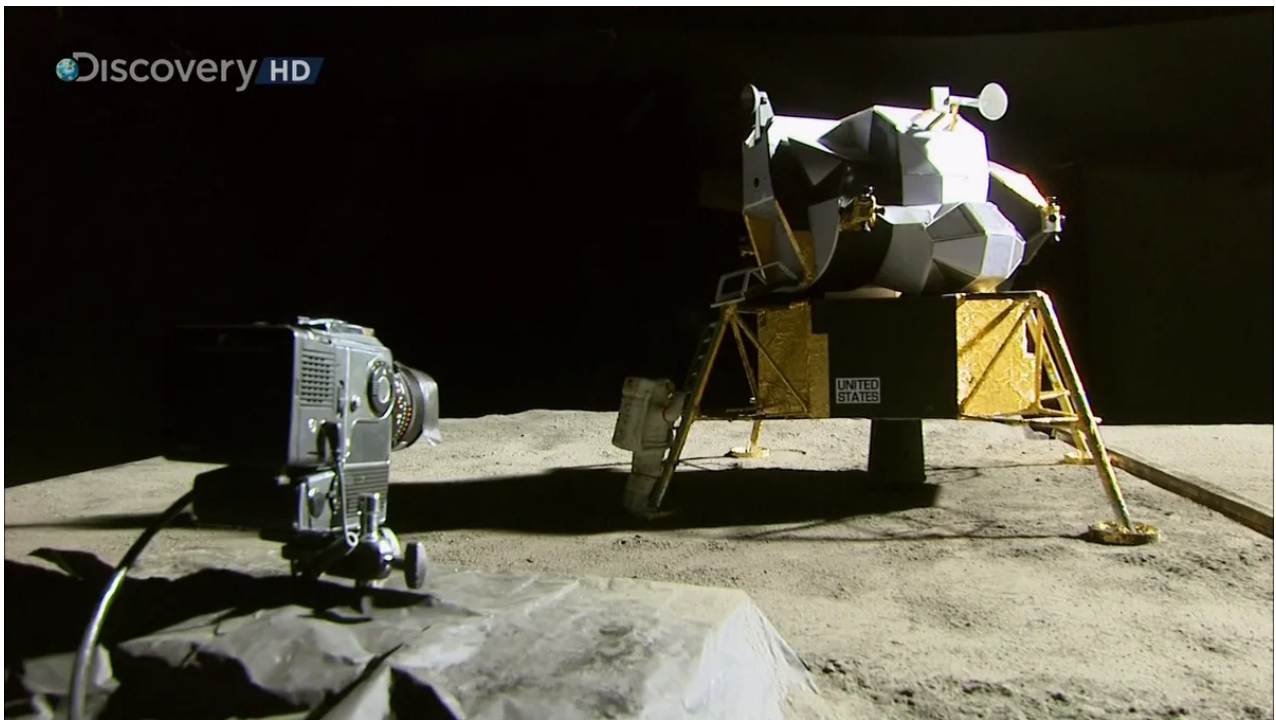
The walls are covered with black paper. The astronaut figurine at the left pillar sank into the shadows.

But this is not the result the "mythbreakers" should have received. An astronaut in the shadow should be clearly visible. Therefore, they had no choice but to cheat in order to satisfy the customer. They began to illuminate the astronaut figurine from all sides not only with reflected light, but also with additional light sources. When it came to the moment of photographing, they not only "forgot" to turn off the fluorescent lamps under the ceiling, but also placed a mass of light and even white objects around the astronaut (we will show them now).



A floodlight simulating the sun and included fluorescent lamps.

So, during the preparation of the frame, having installed a camera next to the astronaut on a small stand, they covered it with a WHITE plastic bag.



The camera next to the astronaut.



The camera is covered with a white plastic bag.

And for a long time they did not cover the area between the astronaut and the camera with dark powder.





The area between the astronaut and the camera remains bright.

Of course, this was done so that as much light as possible, reflected from the light soil and the white packet, fell on the astronaut's figure. The attentive reader will tell me that by the time the photograph is taken for comparison, the white bag will be removed, the platform will be evenly covered with dark "dust", and therefore it will become darker around the lunar module.

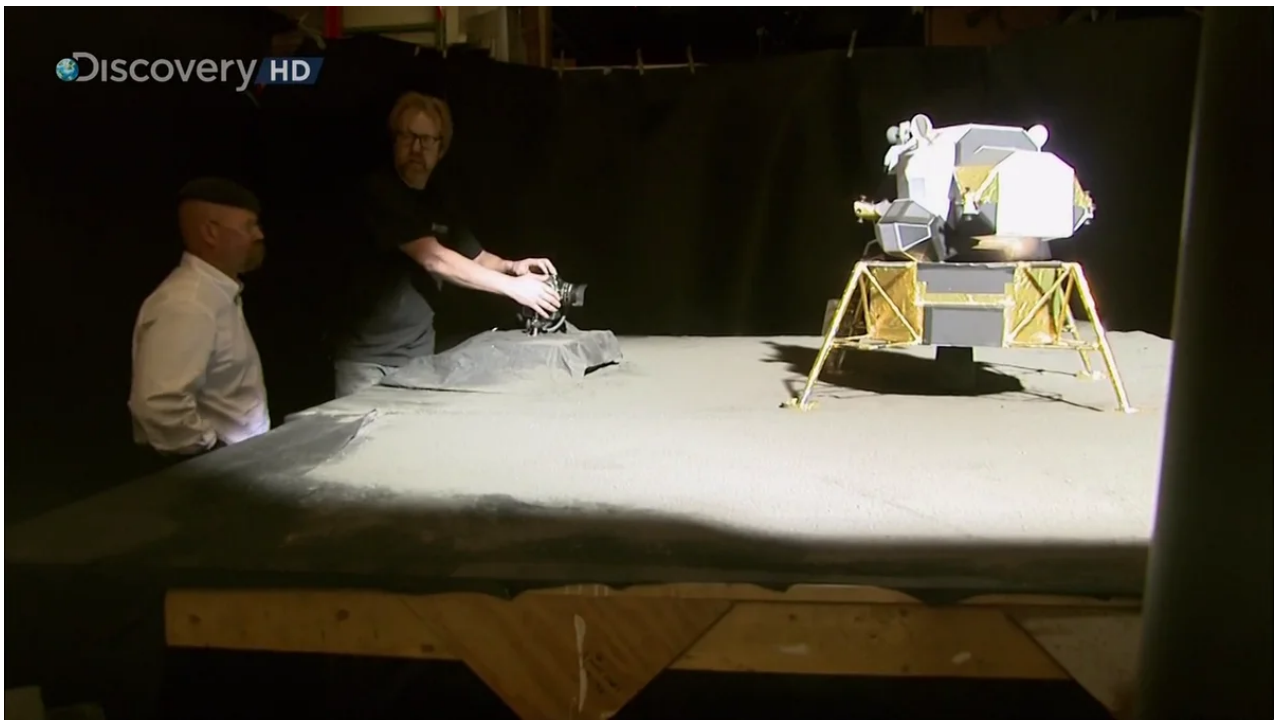
Nothing of the kind. At the moment of taking a photo, the frame around will become even brighter! And that's why. Instead of a white plastic bag, Adam's hands will be brightly lit next to the camera.



At the moment of shooting, brightly lit hands will appear close to the astronaut.

**- Jamie, are you ready? We shoot!** - says Adam and presses the shutter button of the camera, bringing his bare hands into the light.

In addition, from the point of view of the puppet astronaut, at the time of the photo, a giant snow-white mountain suddenly appeared next to him. It was Jamie in a dazzling white shirt, standing next to the photographer.



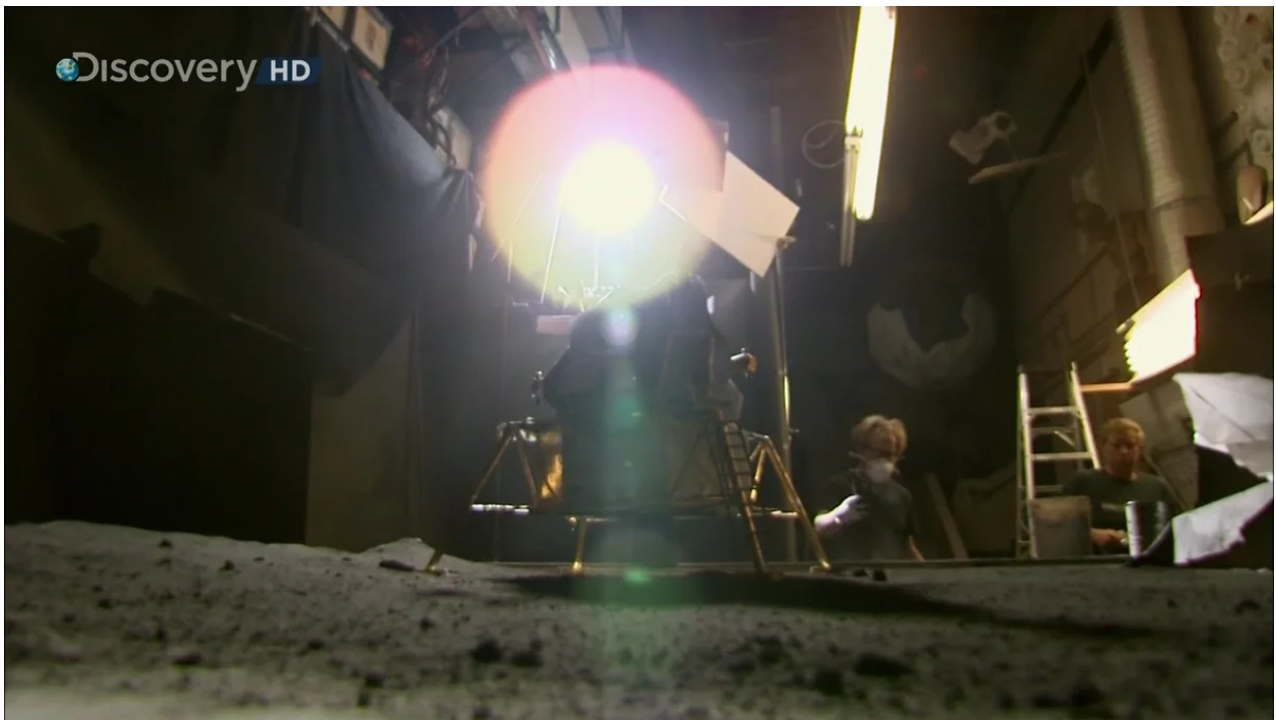
The moment the photo was taken. The red staircase is clearly visible behind the photographer's head.

Despite the fact that there is supposedly one source of light in the pavilion at this moment, Jamie's white shirt from the back is brightly lit. There, on the back, the light from the "sun" cannot get in any way. Therefore, there is one more light source working in this pavilion. On the curve of the elbow of the sleeve and on the back, we see deep shadows under the folds. And these shadows are not from the light reflected from the ground. The shadows are UNDER the folds. As a cinematographer, I immediately understand that the additional light source is working from above.

Or here's another challenge for your wits. Tell me, for example, why is the wooden panel of the platform in the foreground so brightly lit if the "sun" beam does not fall there?

However, you can see the answer in the program itself. There are more than one light source in the pavilion. The second light source flashed in one of the frames. It is a long fluorescent tube suspended from the ceiling about two meters to the side of the spotlight.





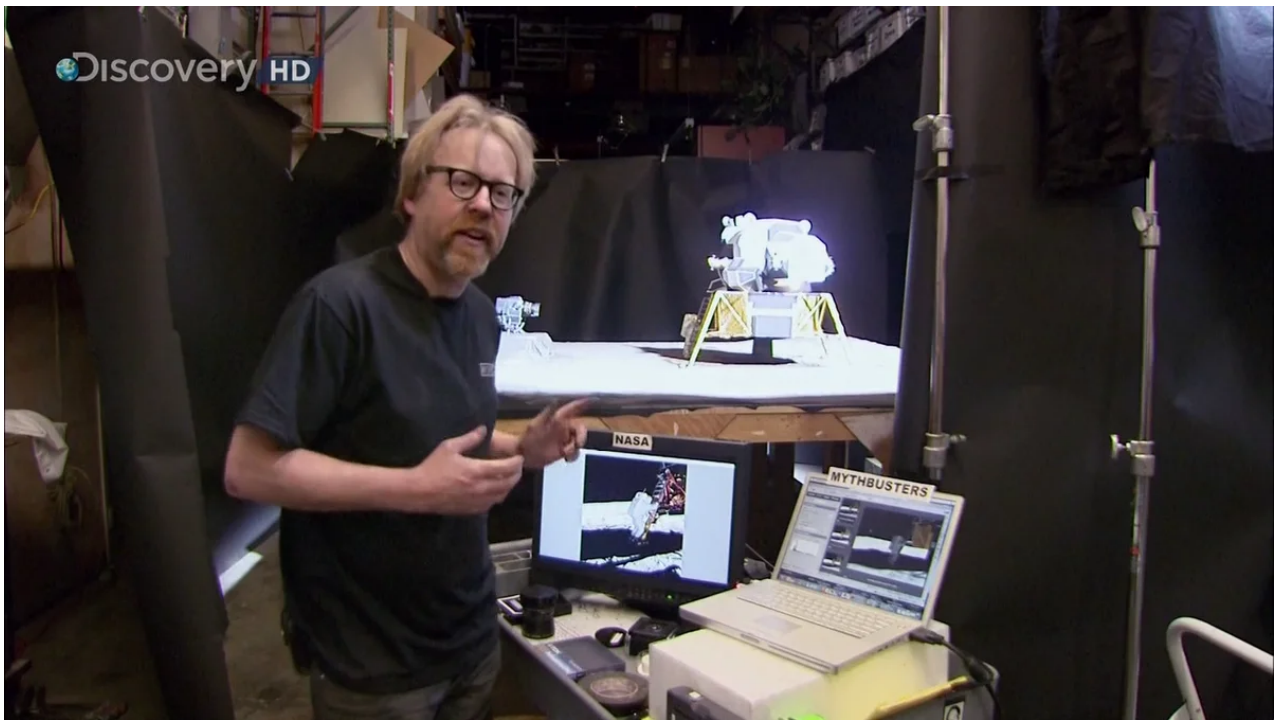
Light sources in the pavilion: a spotlight in the center, to the right of it a fluorescent lamp and a white reflector, on the right wall - "kinoflo".

In addition, the "myth destroyers" tried to deceive the viewer by showing that for the experiment, their workshop was supposedly even darkened from above.



The workshop is supposedly completely darkened. Ceiling view?

In fact, the ceiling was open all the time, and even the "workshop" itself was draped with black paper, not along the entire perimeter, but only on three sides. One side was left open so that an operator with a camera and an assistant could be in this place. Someone must be filming the Mythbusters while they are photographing the astronaut in the shadow of the lunar module!



General plan of the shooting location. Black paper is not up to the ceiling, the fourth wall is open at all.

And if you look closely at the moment when the camera shutter button is pressed, you can see the same red staircase in the background, and it is well lit.



Fragment of the frame. A red staircase is visible in the background.

We easily found a lighting fixture that illuminated the background behind the drapery at that moment. It turned out to be a fluorescent lamp on the ceiling. She got into the frame when the "destroyers" brought their platform into the workshop.



Fluorescent lamps are on all the time under the ceiling of the studio during filming.

So what happens? In words, "myth destroyers" darkened the entire workshop and left a single source of light, imitating the sun, but in fact, they closed only half of the three walls with black paper, and conducted an experiment instead of one, with three light sources - in addition to the main spotlight in the room, they continued to burn two more lamps under the ceiling.

But, apparently, even these tricks did not give the desired result. The puppet astronaut did not turn out to be as bright as in the pictures from the Apollo 11 mission. And then the "myth destroyers" decided that if they falsify, then falsify on a grand scale! And we will now show this in photographs.

They worked so hard that Adam changed 4 T-shirts during this short plot.



Adam changed 4 shirts.



But what the "myth-destroyers" did next, what deception they went for, you will learn from the following article:  
["MythBusters. If falsified, then on a grand scale . "](#)

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Cameraman L. Konovalov was with you!



On the set of the TV movie "Big Space Lies of the United States," Zvezda TV channel.

Until next time!